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RECORD

Vol. 9 No. 44/Nov. 1, 1984

Foundation's gifts total \$6.5 million

The McDonnell Douglas Foundation has made and pledged gifts totaling \$6.5 million to the ALLIANCE FOR WASHINGTON UNIVERSITY, a \$300 million fund-raising campaign, Chancellor William H. Danforth has announced.

This total includes two grants previously announced for the McDonnell Center for the Space Sciences, \$2,513,823 given in 1980 and \$2.5 million announced earlier this year.

The foundation's support also includes a \$1 million gift to the School of Business and Public Administration; a \$250,000 grant for the School of Engineering and Applied Sciences; annual gifts totaling \$150,000; and participation in the matching gifts program, \$86,177.

The McDonnell Center for the Space Sciences was established in 1974 by a gift from the McDonnell Douglas Foundation. These two latest gifts now bring the total McDonnell support of the space sciences at WU to \$10,714,112.

Named for the late James S. McDonnell, aerospace pioneer and founder of the McDonnell Douglas Corporation, the center consists of 85 members who pursue fundamental studies of the earth, the solar system, and the universe.

Robert M. Walker, McDonnell Professor of Physics and director of the center, said the latest foundation gift would be used to support graduate fellowships and bring visiting scientists to the center for lectures and collaborative investigations.

The gifts to the Business and Engineering Schools will be used for capital purposes outlined in the ALLIANCE planning to strengthen these enterprises for the coming decades.

Danforth expressed gratitude for the foundation's magnificent commitment to the ALLIANCE FOR WASHINGTON UNIVERSITY. "The initiation and nurturing of the space sciences in the corporation and in the University has been both generous and visionary. As a result, St. Louis is now a world center for one of our era's most exciting adventures," he said.

The funds sought through the ALLIANCE include \$200 million for endowment and facilities, and \$100 million for annual operations and special program support. George Capps, a WU trustee, is chairman of the program.

Sanford N. McDonnell, chairman and chief executive officer of McDonnell Douglas Corporation, said the foundation regards WU as an important scientific, academic and cultural center located in the same community with the world headquarters of McDonnell Douglas Corporation. "We share interests in aerospace, in engineering, in business and in health," he said.



Robert Binns (left), senior research associate, and Joseph Klarmann, professor of physics, inspect a prototype of the Scintillating Optical Fiber Isotope Experiment (SOFIE). This multi-stage electronic cosmic ray detector could be in earth orbit before 1990 and will provide scientists with the first clear video images of cosmic rays.

SOFIE

Cosmic rays detector developed here provides first clear video images of stardust

She's built like a doghouse, has no hair and even less personality, but the WU scientists who created her know that SOFIE is a beauty.

SOFIE catches cosmic rays — highly energized atomic particles that come zipping into the earth's upper atmosphere from who knows where at nearly the speed of light. Scientists look to cosmic rays for clues to some of nature's best-kept secrets.

Data from WU's Scintillating Optical Fiber Isotope Experiment (SOFIE) will yield some long-awaited answers to the myriad of questions that remain about cosmic rays. Where do they come from? In what relative abundances do they occur? How were they accelerated to such terrific energies in the first place? What can they tell us about the formation of the elements, the stars, other galaxies?

Early detectors have consisted of high-altitude balloons carrying sheets of special film called nuclear emulsion. When a charged particle whizzed through the sheet, it left a microscopic track. Scientists examined these cosmic ray "footprints" one by

one, gleaning clues about the nature of cosmic rays.

But there were many disadvantages. Nuclear emulsion experiments had to be retrieved before tedious, micron-by-micron analysis could begin. And resolution was far from ideal. "You could easily confuse one charge for a neighboring charge," recalls Joseph Klarmann, professor of physics. "So we had to settle for identifying ranges or groups of particles."

Electronic detectors were a big step forward. They used a sheet of plastic laced with a complex organic molecule or "scintillator." Atomic particles entering this special plastic lose some or all of their energy, causing the scintillator to flash. Because these light bursts were directly related to the ionization of the particle as it passes through the plastic, and because these measurements could be transmitted immediately to earth for computer analysis, scientists learned much more about the charges, energies and relative abundances of cosmic rays.

Since the particles could finally be characterized by element, scientists found that they were mostly hydrogen, with lesser amounts of helium, carbon, nitrogen, oxygen, silicon and iron.

But one thing that electronic detectors could not provide was an image, a graphic representation of the digital data.

Until SOFIE.

A multi-stage electronic detector, SOFIE pushes the study of cosmic rays toward unprecedented specificity. Once SOFIE is put into active service, either on a high-altitude balloon or in earth orbit, scientists will be able to learn not just the identity of the element, but also its isotope — that is, the number of neutrons and protons in the nucleus of the particle. This means better characterization of the particles and enhanced understanding of their origins.

"It's important to have something visual — an image — in addition to a numerical measure," says Robert Binns, senior researcher at

Continued on p. 7



Members of the Holy Roman Repertory Company include (from left): Jeffrey Noonan, lutenist; Agnes Wilcox, artist-in-residence in WU's drama division; and Hollis Huston, co-director of the company and artist-in-residence in drama.

Holy Roman Repertory Company stages 'Life and Opinions of Casanova'

The Holy Roman Repertory Company (HRRC) will present "The Life and Opinions of Giacomo Casanova" at 8 p.m. Friday and Saturday, Nov. 2-3, and at 2 p.m. Nov. 3 in the Drama Studio, 208 Mallinckrodt Center.

The program, presented as an ancient broadcast, is based on Giacomo Casanova de Seingalt's autobiography, titled "Historie de ma Vie," dated 1797.

"Casanova's activities as a diplomat, historian, literary critic, gambler, social climber and philanthropist will be explored through autobiographical excerpts," said Hollis Huston, co-director of the company and artist-in-residence in WU's drama division.

The concert also will feature music from the period of Casanova's life, including pieces known to have been performed in his presence.

Company members include Nicholas McGegan, co-director of HRRC and artist-in-residence in the University's music department, and professional actors and early musi-

cians from the St. Louis community.

"The Life and Opinions of Casanova" is part of a series produced by the HRRC and KWMU FM 91, the National Public Radio (NPR) affiliate at the University of Missouri-St. Louis. The concerts will be broadcast on KWMU in the spring and then offered as a series to NPR stations across the country.

Admission is \$5 to evening performances and \$3 to the matinee, with two-for-one discounts for students and KWMU "Studio Set" members. For more information, call 889-6543 or 889-5858.

The HRRC recently was admitted to the Arts and Education Council of Greater St. Louis. The HRRC series is financed, in part, by grants from the St. Louis Arts and Humanities Commission, the Missouri Arts Council, the National Endowment for the Arts, and the Missouri Committee for the Humanities, the state-based arm of the National Endowment for the Humanities.

Gargoyle adds class to Wednesdays

The word "gargoyle" usually is associated with the word "ugly." At least according to Webster's New World Dictionary.

But not at WU. The Gargoyle in Mallinckrodt Center is changing its image. From here on out, the Gargoyle, which is open to the public, will be known as "chic."

The cozy atmosphere will still remain. But now the Gargoyle can boast of having a touch of class — especially on Wednesday nights.

"We're having Wednesday night coffee houses every other week," explained Jill Kolodner, a member of the Gargoyle Committee. "There'll be tablecloths, flowers at the tables, and candles. The waitresses and waiters are going to wear bow ties. Everything will be more formal."

Yet not so formal as to be distracting, Kolodner said. Students can still go to the Gargoyle for Wednesday night study breaks, or just to have a cup of coffee and read a good book. But now they'll be entertained by a jazz band, and the coffee might be espresso or cappuccino.

And, if you're hungry, the Gargoyle also will be serving hors d'oeuvres. "We'll have different types of food every week. Before, it was just pastries and coffee."

Yes, this is the new and improved Gargoyle. It's still a room for studying, socializing and eating. But now it's become "chic." And, according to Kolodner, a classy Gargoyle is a class act.

Webster's would probably agree.

Search for Odysseus' home reviewed

WU archaeologist Sarantis Symeonoglou, who is searching for the long-sought home of Homer's Odysseus, will present a slide lecture on his summer excavations at 2 p.m. Sunday, Nov. 4, in Steinberg Hall Auditorium. The lecture is free and open to the public.

Symeonoglou traveled to the Greek island of Ithaka in May to direct a seven-week excavation called "The Odyssey Project." The endeavor was financed, in part, through a grant from the National Geographic Society.

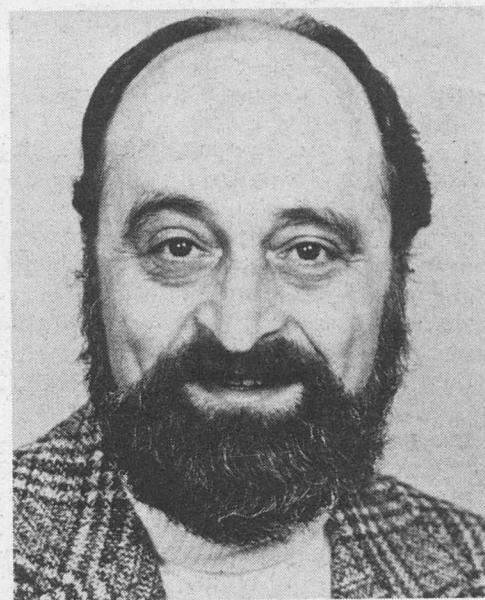
Archaeologists had searched for Odysseus' home from the early 1800s to 1937, but to no avail. Born in Greece in 1937, Symeonoglou was invited to Ithaka in the summer of 1983 by the mayor to explore the potential for further excavation. The archaeologist discovered a site where erosion had exposed archaeological remains, which he dated to Odysseus' era.

Earlier excavators would have overlooked the site because they were searching for a fortified settlement, or one at the top of a hill. The site Symeonoglou was attracted to is unfortified and is on the side of a gently sloping hill.

Having obtained the permission of the Greek government, Symeonoglou began the excavation under the

auspices of WU and the Archaeological Society of Athens (WU Professor Emeritus George Mylonas is president). He led a team of 10, including six members with WU connections.

They are: Amanda Slavin, M.A., art and archaeology; Michael Voligny, architect and M.A., art and archaeology; Mary Lou Roussel, graduate student, art and archaeology; Dina Weisberger, undergraduate student, art and archaeology; and Bill Blanchard, Ph.D., chemistry.



Sarantis Symeonoglou

Social reformist Michael Harrington previews next four years in America

Michael Harrington, writer, social reformist and professor of political science at Queens College, City University of New York, will deliver the Benjamin E. Youngdahl Lecture at 4 p.m. Thursday, Nov. 8, in Graham Chapel.

His lecture, titled "America: The Next Four Years," is free and open to the public and is sponsored by the University's George Warren Brown School of Social Work and Assembly Series.

Harrington began his career as a welfare worker in St. Louis. He was associate editor of the Catholic Worker during 1951-52 and the organization secretary of the Workers Defense League in 1953.

A former researcher and counsel for the Fund for the Republic, Harrington served as editor of New America from 1961 to 1962. A socialist, he has served as a delegate to the executive committee of the International Union of Socialist Youth in Berlin. He also was organizer of the 1960 March on the Conventions Movement and a delegate to Congress Socialist International in Amsterdam.

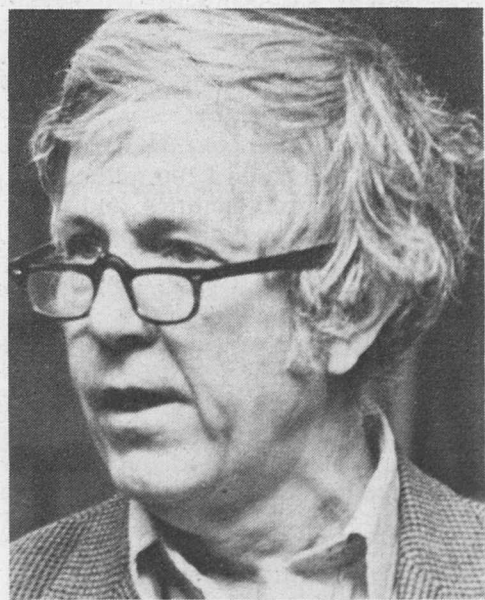
Harrington has served as chairman of the board for the League for Industrial Democracy and as a member of the national executive board of the Socialist Party. He was a paid consultant on the U.S. government's poverty plan and is a member of the board of the American Civil Liberties Union and the Workers Defense League.

Harrington's writings include *The Conservative Party, 1918-1970*,

Fragments of the Century, The Seventies: Problems and Proposals and *Socialism*.

He received the George Polk award and the Sidney Hillman award in 1963. He also has received awards from the Newspaper Guild, Bard College and the Eugene V. Debs Foundation.

The Benjamin E. Youngdahl Lecture is given annually to honor the memory of Youngdahl, former dean of the School of Social Work from 1945 until his retirement in 1962. He received national recognition in the field of social work, and during his career was an outspoken advocate of civil liberties. Youngdahl died in September 1970.



Michael Harrington

Carl Cori memorial service to be held in Cambridge

Chancellor William H. Danforth will speak at a memorial service Nov. 16 for Dr. Carl F. Cori at Harvard Memorial Church, Cambridge, Mass. Dr. Cori and his first wife, Dr. Gerty T. Cori, won the Nobel Prize for medicine while they were faculty members at WU in 1947. Dr. Carl Cori, 87, was Distinguished Service Professor Emeritus in Biological Chemistry at WU.

Dr. Carl Cori died Saturday, Oct. 20, at his home in Cambridge. He had suffered a heart attack in November 1983.

He retired from WU in 1964 and joined the faculty of Harvard University, where he was active in research until his death.

The Coris were awarded the Nobel Prize for isolation of the enzyme that starts the conversion of animal starch into sugar. At the time, both were professors of biochemistry at the WU School of Medicine. They shared the prize with B. A. Houssay of Buenos Aires. Dr. Gerty T. Cori died in 1957.

The Coris had begun experimenting in 1935 with a mixture of ground muscle in a phosphate solution. The procedure was a routine one, but they varied it a bit and discovered the enzyme that starts the conversion of glycogen into sugar. They called the enzyme phosphorylase.

After another six years of research, they were able to crystallize the enzyme. Their award was made six years later.

One of the world's leading biochemists, Dr. Cori was a professor at the School of Medicine for 35 years. He retired from the University in 1966 as chairman of the biochemistry department. Participants in a symposium to honor him here in 1976 included former co-workers and students, including three Nobel laureates.

Danforth worked in Dr. Cori's laboratory for two years.

Dr. Cori was born in Austria and graduated from the German University in Prague in 1920. He was an assistant professor of pharmacology at the University of Graz, Czechoslovakia, before coming to the United States in 1922. He joined the faculty of the University of Buffalo and did research in New York before joining the WU faculty as professor of pharmacology in 1931.

He became professor of biological chemistry and head of the department in 1947, the year of the Nobel award.

Survivors include his wife of 24 years, the former Ann Fitzgerald Jones, of Cambridge; a son, Thomas C. Cori, president and chief operating officer of Sigma-Aldrich Corp. in St. Louis; and two granddaughters, Gerty Elizabeth, of Boston, and Eliot, a student at Vassar College.



Carl F. Cori

Challenges of teaching theme of talk

Cynthia Parsons, former education editor of The Christian Science Monitor, will speak on "The Challenges of Teaching as a Career" at 2:30 p.m. Thursday, Nov. 8, in 217 McMillan.

Her lecture, which is free and open to the public, is sponsored by the University's Assembly Series, Career Planning and Placement, and Department of Education.

Parsons also will speak on "School Reform" when she delivers the Phi Delta Kappa Lecture at 7:30 p.m. Thursday, Nov. 8, in the Women's Building Lounge.

Parsons served as education editor of The Christian Science Monitor from 1962 to 1969 and from 1974 to 1982. She served as education editor of The World Bank in Washington, D.C., from 1969 to 1970 and was senior program officer for the National Institute of Education from 1970 to 1973.

She also has served as guest columnist for Australia's Independent and has written a syndicated column, "Parent and Child," which ran from 1971 to 1973. She has been guest editor of the University of Vermont (UVM) Record and Vermont Magazine.

In the last few years, Parsons has been a visiting instructor at Geelong

College in Australia, Dartmouth College, and the University of Vermont, and has worked as a curriculum consultant for Robert College in Turkey.

Woman's Club holds slide show, square dance

A slide presentation highlighting the past and future of Union Station will be presented by Gay Williams, public relations director for Rouse Company in St. Louis, at the WU Woman's Club's Newcomers' Special Event.

The event will be held at 7:30 p.m. Thursday, Nov. 8, at 551 Warren Ave. in St. Louis. Dessert and coffee will be served following the slide show.

For reservations, call Jan Kardos at 863-0523 or Sally Jerina at 725-4968.

The Woman's Club also is sponsoring a square dance for all WU faculty, staff, their families and friends from 7:15 to 11 p.m. Saturday, Nov. 10, in Wohl Center.

For more information, call Mary Edwards at 961-0562.



Gamelan. The University of Northern Illinois Balinese Gamelan Ensemble will present "Music From Paradise," a concert of Indonesian percussion music, at 8 p.m. Friday, Nov. 2, in Edison Theatre. For more information, call 889-6543.

Teams gear up for College Bowl

The recent surge in games of trivia have added to the increased popularity of College Bowl on campuses, including WU, says Greg Giesen, coordinator of student activities and coach of the WU College Bowl.

The return to televised national tournaments last year on NBC also has helped to renew interest, he said. Last May, WU's College Bowl team placed second in national competition, losing only to the University of Minnesota.

On Wednesday, Nov. 7, at 7 p.m., WU will celebrate "College Bowl Night" at the Umrathskeller in Umrath Hall. The evening will begin with an awards ceremony for last year's team, including the presentation of Olympic-style medals, College Bowl rings, and \$5,000 to the WU scholarship fund — all from College Bowl — and a set of science and technology encyclopedias from McGraw-Hill.

At 8 p.m., Giesen will hold a captain's meeting to review rules and regulations for this year's tournament, which begins Nov. 10 on campus. WU teams will compete on Nov. 10 and 11 in Mallinckrodt Center's AV Room and Lambert Lounge. The

semifinals will begin at 7 p.m. Nov. 12 in the Gargoyle, Mallinckrodt Center. The finals will follow immediately.

Last year, 39 teams of five players each competed on campus. The winning team will advance to regional competition against other colleges and universities.

Auditions set for two PAA plays

Auditions for two plays to be presented by WU's Performing Arts Area (PAA) will be held by appointment only from 7 to 11 p.m. Tuesday and Wednesday, Nov. 6-7, in the Mallinckrodt Center. The plays are "Blues for Mister Charlie," written by James Baldwin, and "Come Back to the Five and Dime, Jimmy Dean, Jimmy Dean," written by Ed Graczyk.

Auditions for "Blues for Mister Charlie" will be held in Edison Theatre. WU students must schedule audition time on the bulletin board outside of Room 315 in Mallinckrodt Center. The play includes speaking roles for 25 persons. Three black female and three black male dancers also are needed.

The production, to be directed by Rhonnie Washington, WU assistant professor of drama and black studies, will feature guest artist Ron Himes, director of the Black Repertory Company. The Edison production dates are Feb. 8-9 and 15-16. The play will be restaged at the Black Repertory Company's theatre, 2240 St. Louis Ave., Fridays through Sundays, March 1-24. Rehearsals will begin on Nov. 11.

Auditions for "Come Back to the Five and Dime . . ." will be held in two locations. On Nov. 6, auditions will take place in Lambert Lounge, Room 303-304. On Nov. 7, auditions will be held in the Carson Room, Room 313. WU students must sign up on the bulletin board outside of Room 315 in the Mallinckrodt Center.

Parts for eight women and one man are available. Under the direction of Diana Lee, WU assistant professor of drama, the production will be performed March 15-17 in the Drama Studio. Rehearsals will begin in mid-January.

For more information, call the PAA at 889-5858.

RECORD

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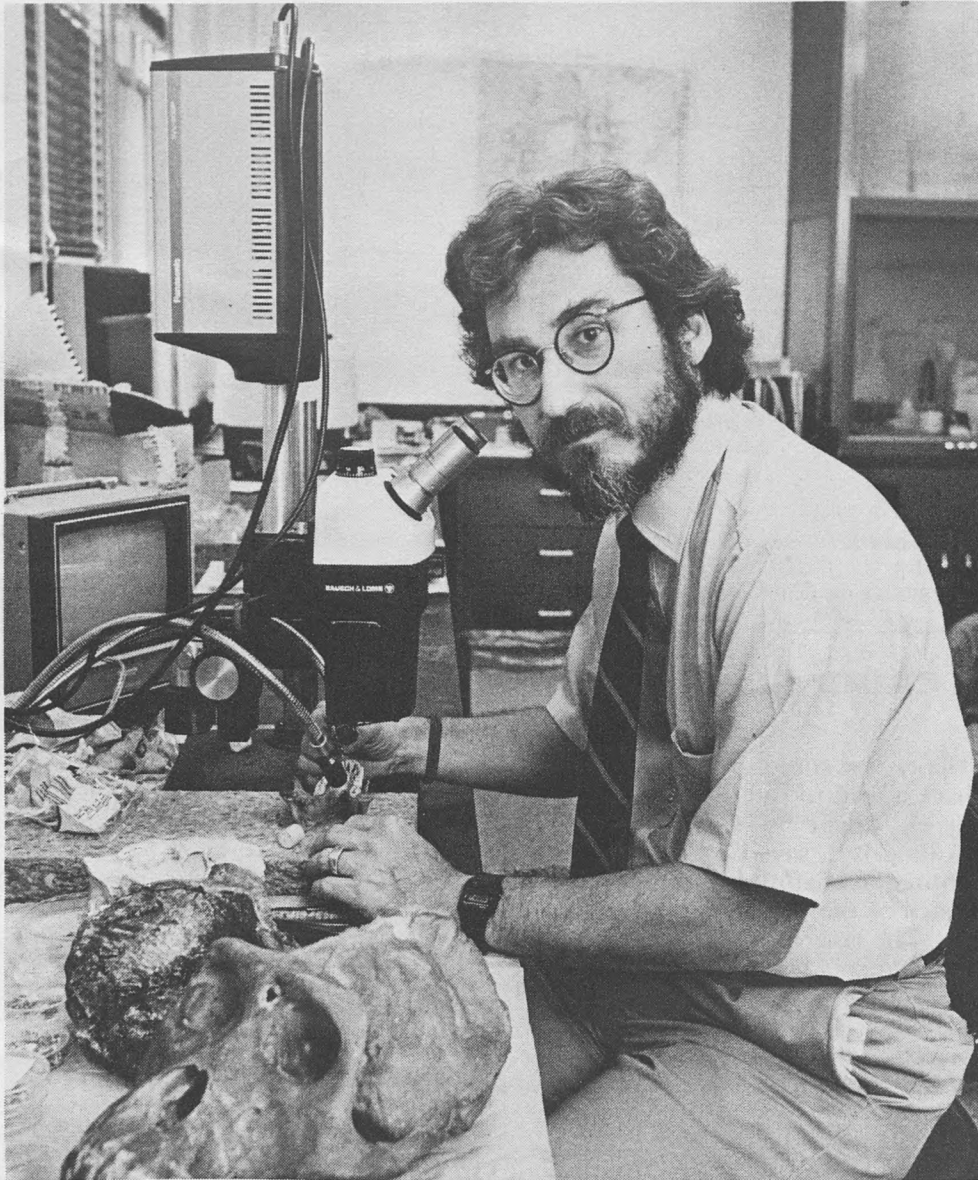
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MEDICAL RECORD



Glenn Conroy, Ph.D., professor of anatomy and neurobiology, has begun using computer graphics to study stone-encrusted, stone-filled fossils in his anthropological research.

Computer imaging Unravelling stone-age mysteries

In a novel application of computer graphics and medical imaging, two School of Medicine researchers have developed a new technology for studying stone-encrusted, stone-filled fossils. The technique provides anthropologists the opportunity — through computer graphics — to remove obstructing stone from fossils too valuable to be sawed, chiseled or drilled.

Their work, described in detail in the cover-report of the Oct. 26 *Science*, could have enormous impact on paleontology and the study of evolution because it enables scientists to wrestle new tell-tale information from prized fossil specimens.

Glenn Conroy, professor of anatomy and neurobiology, combined talents with Michael Vannier, assistant professor of radiology, to develop the new technique. After hearing of Vannier's success in recreating simulated three-dimensional images of patients with cranio-facial deformities, Conroy asked him to try similar image-processing methods on the skulls of prehistoric animals.

"Anthropological research is confounded by the fact that many key fossil discoveries are embedded in or filled with stone," explains Conroy, who also has a faculty appointment in the anthropology department. "I saw that Mike could take a series of cross-sectional images of a patient, reassemble them into a simulated 3-D image and then, for example, selectively remove the brain tissue to look at the interior of

the skull. It occurred to me that he might also be able to CAT scan a fossil skull and selectively remove the stone from the image, or lay the skull image open like a walnut shell so I could see inside. I was fascinated by the potential."

Reflecting back almost two years to their first meetings, Vannier says, "Glenn came in with an interesting problem. Anthropologists expend enormous energy cleaning up fossils so they can get a look at the surfaces of a skull. And, without actually breaking or cutting the specimen apart, they had no way to look at the intracranial morphology of a skull filled with rock."

While the problems seemed solvable to Conroy and Vannier, there were intriguing technical challenges associated with CAT scanning fossils. Fossil imaging differs from imaging patients in two important respects, according to Vannier. "First, the fossils are not covered with flesh. The CAT scanner doesn't 'like' that because it has been optimized to scan people, not rocks. Second, the fossilized bone, because it has absorbed so many minerals, is three times more dense than the densest living bone."

In preliminary experiments that tackled the challenges one at a time, Conroy and Vannier worked evenings and weekends — whenever the CAT scanner was dormant — imaging everything from extant gorilla and human skulls to a variety of rock samples graciously lent to them by Professor Harold Levin, dean of Earth

and Planetary Sciences. After manipulating the scanner's controls and applying what Vannier calls "several tricks and shortcuts" learned by processing more than 600 patient-scans, they began to get encouraging results. Conroy soon decided that the pilot studies were yielding impressive images and looked for the opportunity to try the computer program on more interesting specimens.

He contacted the American Museum of Natural History in New York and asked to have a challenging fossil skull on which he and Vannier could ply their new technique. Courtesy of the museum, Conroy received several 30 million-year-old fossilized mammal skulls. One of the skulls, originally found in Wyoming's Hat Creek Basin, had a clean surface that was filled with fine- to medium-grained sandstone. Morphological relationships among the braincase, jaws, orbits and spinal cord were completely

obstructed from view by the rock matrix that filled the skull. "Nothing of the interior was visible," says Conroy.

"In our trial scans," explains Vannier, "we found that immersing the skull in water during scanning could imitate the presence of flesh, and that increasing the X-ray dosage could guarantee penetration of the dense fossil rock."

As evidenced by the stunning images on the cover of *Science* magazine and by the comments Conroy has received from anthropologists in several countries, the technique worked beautifully on the mammal fossils.

"The response has been gratifying," says Conroy. "There's every reason to believe this could be a powerful new tool for physical anthropologists and paleontologists."

Don Clayton

Virginia V. Weldon named chairman-elect of AAMC assembly

Virginia V. Weldon, M.D., deputy vice chancellor of WU School of Medicine, has been named chairman-elect of the assembly of the Association of American Medical Colleges (AAMC).

Her election to the post, announced Oct. 30 during the annual meeting in Chicago, marks the first time in the AAMC's 108-year history that a woman has been chosen to lead the association. Weldon will serve as chairman beginning in the fall of 1985.

The AAMC represents the entire community of academic medicine, including 127 medical schools, 430 teaching hospitals and over 70 biomedical societies, with over 100,000 members from throughout the United States. The Washington, D.C.-based association is a leader in developing programs to advance medical education, biomedical research and health services in the United States.

Weldon has been a representative to the AAMC's Council of Academic Societies since 1976, serving in 1984 as the council's chairman-elect. She is recognized nationally as a spokesperson on issues in medical education, biomedical research, and on legislation affecting health care, especially its costs. A specialist in pediatric endocrinology, she is well known for her studies of mechanisms of abnormal growth in childhood.

Weldon is vice president of the WU Medical Center and professor of pediatrics at the School of Medicine. She also is on staff at Barnes and Children's hospitals, sponsoring institutions of the WU Medical Center. She came to the University in 1968 as an instructor, and was named professor of pediatrics in 1979.

She earned her doctor of medicine degree from the University of Buffalo School of Medicine and her bachelor's degree from Smith College. Weldon was an intern and assistant resident in pediatrics at The Johns Hopkins Hospital in Baltimore, and later held a fellowship and instructorship at Johns Hopkins Medical School.

Her professional memberships include the Institute of Medicine of the National Academy of Science, Endocrine Society, and the Society for Pediatric Research. She is a fellow of the American Association for the Advancement of Science.

Weldon is a member of the board of directors of the United Way of Greater St. Louis and the Center Trust Company of St. Louis, and is a commissioner of the St. Louis Zoological Park.



Virginia V. Weldon, M.D.

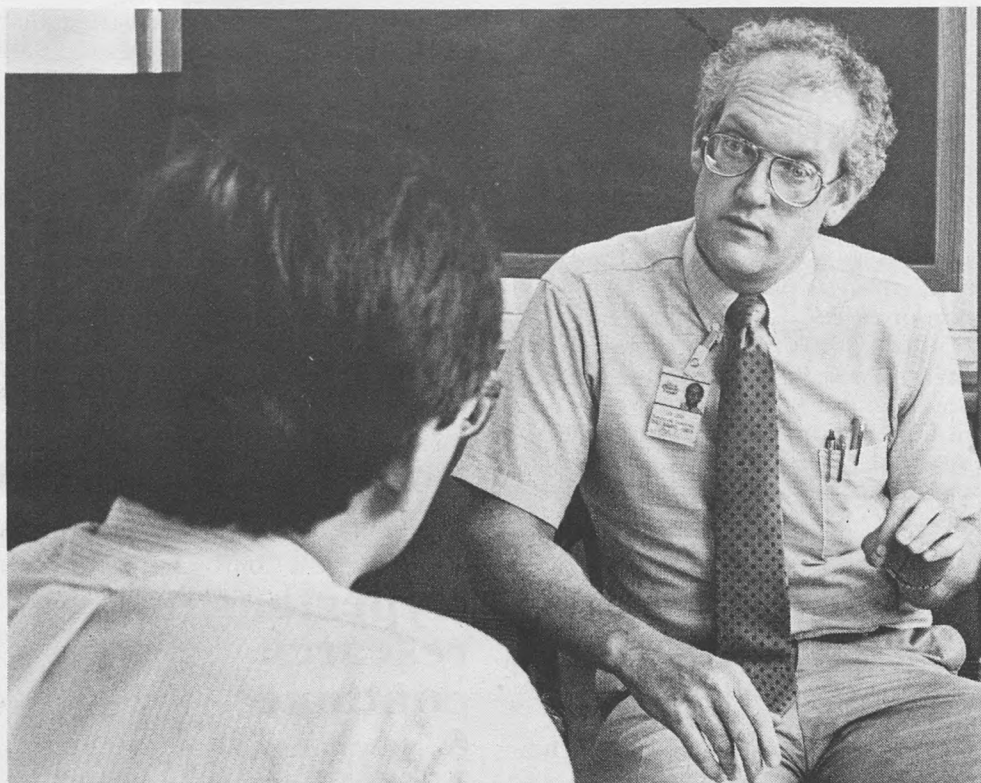
Ronald McDonald House seeks volunteers

The St. Louis Ronald McDonald House is looking for volunteers to help with a variety of activities.

The Ronald McDonald House — located at 4381 West Pine near the WU Medical Center — is an inexpensive, comfortable and supportive home-away-from-home for children with cancer and other serious illnesses. It provides temporary lodging and care for these children, and their families, while the children receive treatment at either Children's Hospital, Cardinal Glennon Memorial Hospital or other area hospitals. The St. Louis house is just one of 50 such homes operating across the country.

Volunteers are needed to interact with children and their families, admit new families, handle secretarial and managerial tasks for the home, and assist with publicity.

Interested volunteers may call Robert Frein, executive director of the Ronald McDonald House, at 531-6601.



Lee Judy, executive director of the Child Guidance Center, counsels an adolescent in the center's new facilities at Children's Hospital.

Child guidance center moves to new Children's Hospital

Two separate services at WU School of Medicine have combined operations to create the Child Guidance Center, located in Children's Hospital at 400 S. Kingshighway Blvd.

The new center was formed when the Child Guidance Clinic moved to Children's Hospital and expanded its program by joining with the outpatient psychiatry service, already in existence at the hospital. The clinic had been located at 369 N. Taylor Ave.

"Geographically, our new location in Children's Hospital enables the Child Guidance Center to be a more cohesive part of the WU Medical Center," said Lee Judy, executive director. "It was only logical to move to this location. We're continuing to provide the community with a comprehensive diagnostic psychiatric service, and now are able to work with other medical disciplines as needed." Children's Hospital is a sponsoring institution of the WU Medical Center.

The clinic's move has also made it more accessible to the inpatient psychiatric service at Children's Hospital, Judy remarked. Patients are easily referred to the inpatient unit, and upon discharge are often referred to the guidance center for follow-up treatment.

The Child Guidance Center specializes in treating children from infancy through 18 years of age for developmental and behavioral problems, hyperactivity, sexual abuse, depression and other emotional disorders.

The center — which opened in 1947 — uses a multidisciplinary approach that combines psychiatry, psychology and social work services. In evaluating patients and making recommendations, the center's staff members work closely with children and their families. Clients can choose from several different treatment programs, often combining them or moving from one program to another as their needs change.

Clinic staff members also serve

as consultants to schools, day-care centers, courts, hospitals, pre-school programs and other agencies that address the problems of children and parents. Judy said that 75% of the center's referrals are from professional sources.

According to Judy, the first step in an evaluation is to call for an appointment for the parents and child to spend three hours with a center team, which gathers information that is later presented to the entire staff. The center's conclusions and recommendations are discussed with the family during that initial visit.

In addition to its regular evaluation program, the center has a special sex abuse/incest treatment unit.

Beth Sirls, Ph.D., directs the unit, which offers confidential treatment to victims, offenders, spouses and family members. The unit's group and family therapy lasts for an average of 12 weeks. The goal of the program is to protect children from further abuse and help them deal with any difficulties brought on by the abuse, and to help adults adapt to the discovery and then develop appropriate skills to protect their children from further abuse.

The Child Guidance Center's fees are based on a sliding scale. Judy noted that although 25% of the center's patients come from families with incomes of \$30,000, 30% pay \$2 an hour or less.

Harou Kusama, M.D., is medical director of the center, and staff members represent the fields of psychiatry, psychology and social work. Consultants to the center are Felton Earls, M.D., director and Blanche F. Ittelson Professor of the William Greenleaf Eliot Division of Child Psychiatry at WU, and Zila Welner, M.D., assistant professor of child psychiatry and medical director of the inpatient psychiatric unit at Children's Hospital.

To make appointments, or for further information, call the Child Guidance Center at 454-6201.

Mallinckrodt radiologists awarded fellowships from medical society

Two physicians at WU's Mallinckrodt Institute of Radiology — G. Leland Melson, professor of radiology and chief of clinical ultrasound, and William A. Murphy, professor of radiology, co-chief of the musculoskeletal section, and co-chairman of the magnetic resonance imaging — were named 1984 Fellows of the American College of Radiology (ACR) at the college's 61st annual meeting, Sept. 17-20, in Los Angeles.

The ACR is a professional medical society representing 18,000 physicians specializing in radiology. Each year, the college awards fellowships to distinguished members in recognition of scientific accomplishment in radiology, performance of outstanding service in teaching, and accepted leadership in areas of radiologic specialty.

Since joining the faculty of Mallinckrodt Institute in 1972, Melson has published 40 articles and eight book chapters. Much of this research concerns the use of ultrasonography in the study of tissue and diagnosis of disease. He serves as an editorial consultant for the American Journal of Roentgenology, Radiology, Investigative Radiology, and the Journal of Clinical Ultrasound.

Melson completed his medical degree at WU's School of Medicine. He was elected to the Alpha Omega Alpha honorary and was a recipient of Missouri State Medical Association and WU School of Medicine Alumni Awards. After completing a medical internship and residency at Peter Bent Brigham Hospital in Boston, he

received a two-year appointment as a clinical associate of the National Institute of Arthritis and Metabolic Diseases. His residency at Mallinckrodt Institute was in diagnostic radiology.

Murphy is recognized for his contributions to musculoskeletal and vascular radiology. As co-chairman of the Mallinckrodt committee which organizes research and clinical projects in magnetic resonance imaging (MRI). He has helped to coordinate 2,000 patient investigative studies to determine MRI capabilities and diagnostic potential. He currently is participating in a three-year study, funded by a grant from the National Institutes of Health, evaluating the use of MRI in the detection of breast cancer.

Murphy received his medical degree from Pennsylvania State University and obtained his house staff training at Barnes Hospital and the Mallinckrodt Institute of Radiology. On staff at Barnes and Children's Hospitals since 1975, he is the author of nearly 100 journal articles and 15 book chapters. He serves frequently as a visiting professor and guest lecturer for radiology conferences and is currently a member of the ACR Committee on Clinical Applications, Commission of Nuclear Magnetic Resonance, and the Osteoarthritis Criteria Subcommittee of the American Rheumatism Association. He is a member of the editorial boards of Radiology, Arthritis and Rheumatism, and the Journal of Health Care Technology, and is an editorial consultant for the Journal of Computer Assisted Tomography.



Panic Attack. Marc Raichel, M.D. (left), professor of neurology and radiology, appeared recently on CBS Morning News in New York. He was interviewed by Bill Curtis (right) on his radiologic studies of patients with panic disorder. The results of this research, published in *Nature*, demonstrate a distinct difference in the brains of persons with the disorder. The news story generated hundreds of calls nationally from persons suspecting they had the disorder.

MEDICAL RECORD



On the run. The WU corporate running team took third place out of 109 teams in the second annual Xerox Corporate Marathon Relay held Oct. 7. Their time was two hours, 38 minutes for 26.2 miles. Eight of the team runners are affiliated with the School of Medicine. The team, back row from left: Scot Hickman, M.D., assistant professor of medicine; Aaron Shatzman, assistant dean in the College of Arts and Sciences and co-director of the Scholars Program in Medicine (team captain); Marc Rogers, research fellow; Irene Walter Johnson Rehabilitation Institute; Gary Shackleford, M.D., professor of radiology; and Glenn Dietrick, associate dean in the School of Business. In the front row from left are: Walter Bauer, M.D., professor of surgical pathology and pathology; Gerhild Scholz-Williams, associate professor of German; Carol North, M.D., assistant in psychiatry, who was the fastest woman overall in the competition; Charles Lutz, M.D., assistant in pathology; and missing is Paul Roesti, research program analyst at the School of Medicine.

Alzheimer project needs elderly

Elderly volunteers are needed for a St. Louis study that may help scientists better understand normal aging as they learn more about the effects of Alzheimer's disease on the brain.

The study is being conducted by the Memory and Aging Project at WU's School of Medicine. The Memory and Aging Project was funded earlier this year for a five-year study comparing healthy aging and Alzheimer's disease, the most common cause of severe intellectual impairment and institutionalization among the elderly.

The research program is directed by Leonard Berg, M.D., professor of clinical neurology at the School of Medicine and staff physician at Barnes, Children's and Jewish hospitals.

For its current studies, the Mem-

ory and Aging Project is recruiting elderly volunteers, both with and without intellectual impairment, who are 65 to 84 years old and in good general health. Studies include a clinical examination by a physician-specialist, psychometric tests of memory and other thinking functions, brain wave tests and a special CT scan of the head. Also, researchers will assess participants' abilities in daily living activities, as well as stress levels of family members. Some participants will be selected for positron emission tomography (PET) scanning of the brain. All of the studies will be conducted at no charge.

For more information, elderly volunteers, their relatives or physicians may call the Memory and Aging Project office at 362-2683.

Vanpool begins High Ridge service

A new vanpool is being formed from the High Ridge, Mo., area. Its route will follow Highway #30; exact pick-up points have not been established. Interested riders should call Laura Griffin, coordinator driver at 362-3580. Listed below are areas cur-

rently served by vanpools. Further information on any of the established vans, including cost, availability or for information regarding starting a new vanpool in your area, call Carole Moser, transportation office, 362-6824.

Afton
Ballwin
Berkeley
Florissant
North Florissant
North County (Central City)

North St. Louis City
St. Charles
South St. Louis City
South County
University City
Washington

Skin disease center receives donation

A Pennsylvania trust fund has donated \$25,000 to the School of Medicine to support its center for victims of epidermolysis bullosa (EB), the "thin skin disease."

The gift is from the Jamie Hoke Living Trust Fund, started in 1982 by Southcentral Pennsylvania residents in honor of Jamie Hoke, an eight-year-old Pennsylvania boy who is a victim of the rare genetic skin disease.

EB causes blistering, scarring and destruction of the skin and mucous membranes of the gastrointestinal, urinary and respiratory tracts. There is very little treatment and no known cure for the disease. Fourteen varieties of EB threaten the lives of 25,000-50,000 patients, mostly children, in the United States alone.

In 1983, The Dystrophic Epidermolysis Bullosa Research Association gave \$25,000 to WU to found one of the first national centers for research and treatment of EB. The center is directed by Eugene Bauer, M.D., professor of dermatology at the School of Medicine and a physician at Barnes, Children's and Jewish hospitals, sponsoring institutions of the WU Medical Center.

Scientists at the center are trying to determine the cause of various forms of EB. In limited research, they have been able to distinguish several specific forms of EB by performing biochemical tests on patient tissue.

Those dermatologic studies, though not yet available for widespread clinical use, may one day lead to a cure or to effective therapy for EB patients.

In addition to providing support to the WU EB Center, the Jamie Hoke Living Trust Fund recently presented \$50,000 to Children's Hospital of Philadelphia to create its Pediatric Center for Genetic Diseases, which also will be devoted to EB treatment and research.

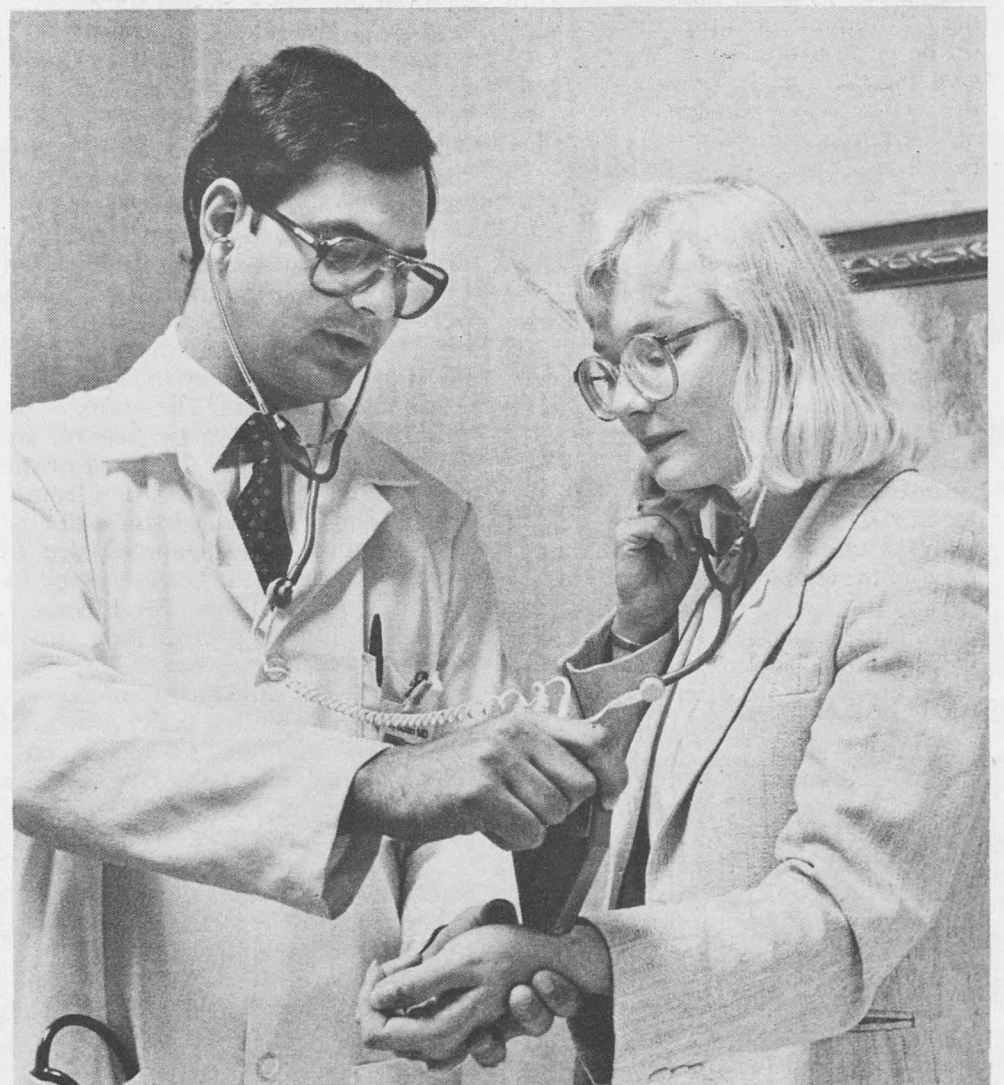
More information is available through the EB center at Box 8123, WU School of Medicine, 660 S. Euclid Ave., St. Louis, MO 63110 (362-2643).

Hypertension research continues

People with high blood pressure are needed for research on a new anti-hypertensive medicine being conducted at WU School of Medicine.

The ongoing study is being conducted at the Lipid Research Center, part of the Department of Preventive Medicine at the University. Study participants must be between the ages of 18 and 75, and have no other significant illnesses. People already taking medication for high blood pressure can be accepted if their private physicians agree to stop medication for three to four months.

For more information, contact the Lipid Research Center from 8 a.m.-3:30 p.m. weekdays (telephone 362-3500).



Heartbeats. William Houck, M.D., chief resident in obstetrics and gynecology, and Jane White, Medasonics Company area manager, demonstrate the use of an ultrasound stethoscope by listening to an artery in the wrist. Medasonics donated the pocket-size stethoscope to the Department of Obstetrics and Gynecology for clinical use. Clinically, the stethoscope can detect fetal heartbeats as early as nine weeks, and is particularly useful in confirming the presence of a live fetus when maternal obesity prevents hearing the fetal heartbeat with a conventional fetoscope.

NOTABLES

Maryann De Julio, assistant professor of French, participated in the National Endowment for the Humanities Summer Seminar titled Literature and Painting at the University of Pennsylvania. The seminar examined the relationship between painting and literature with special emphasis on four modernist movements: Cubism; the ideographic impulse from imagism through concrete poetry; the semantic disruptions of non-sense and surrealism; and the contradictory concept of abstraction.

Roger I. DesRosiers, dean of the School of Fine Arts, coordinated a calendar for Hallmark Cards Inc., which "celebrates 16 of today's most accomplished artist-educators." The publication, which will be available in about a month, includes **James McGarrell**, WU professor of art. "Hallmark, on the occasion of its 75th anniversary, has chosen to salute the quality and commitment represented by these 16 outstanding artists," DesRosiers writes in the acknowledgements. "It is a beautiful concept and, reproduced in this form, one that can be shared with all Americans."

C. William Emory, associate dean and director of the Executive MBA Program of the Graduate School of Business, will address the American Society of Women Accountants (ASWA) at their 25th Annual Public Relations Dinner on Nov. 12 at the WU Club. Emory will speak on "Creative Decision Making." **Magdalen M. Szabo**, departmental administrator in WU's Computer Systems Laboratory and vice president of the St. Louis ASWA chapter, is organizing the event. The purpose of the ASWA is to advance the interest of women in all fields of accounting. For dinner reservations, call 889-4668.

William D. Owens has been elected to serve a four-year term on the board of directors of the American Board of Anesthesiology. Owens professor and head of the Department of Anesthesiology at the School of Medicine. The American Board of Anesthesiology is the certifying body for anesthesiologists in the United States. Only 12 individuals are elected to its board of directors.

Memorial service held for student

A memorial service at Graham Chapel was held Monday for Joy Ezra, a WU graduate student in the English department, who was killed Oct. 18 in a hit-and-run accident.

University City police are still looking for the driver of the automobile that hit and killed Ezra, 33, a native of Israel, who resided in University City. The young woman was hit by a dark-colored, mid-sized car while attempting to cross Millbrook Boulevard, west of Skinker Boulevard, at 10 p.m. Oct. 18. Her body then was struck by another car, which stopped, police say.

Ezra was leaving campus after attending a symposium and visiting the library. She was wearing dark clothing and it was raining. The traffic lights on Millbrook were flashing yellow at the time.

"We had what we thought were

Gerhild Scholz-Williams, associate professor of German/comparative literature, delivered a lecture at the annual meeting of the Semiotic Society of America Oct. 11-14 in Bloomington, Ind. She also is chairing a session on German Literature during the 16th Century Studies Conference Oct. 25-27 in St. Louis.

Jules M. Snitzer, clinical professor in the dental school's periodontal department, was reappointed to the Student Loan Committee of the American Academy of Periodontology during the annual meeting held Sept. 18-22 in New Orleans, La.

Diane Sorace, lecturer in Spanish, recently presented a paper, titled "Gongora's Poetic Textual Tradition: Variants, Versions and Imitations," at the Cincinnati Conference on Romance Languages and Literatures.

Frederick Sweet, professor of reproductive biology in the medical school's Department of Obstetrics and Gynecology, participated in the VI International Symposium on Development and Function of the Reproductive Organs at the Weizmann Institute of Science Oct. 22-24 in Rehovot, Israel. Sweet presented a paper, titled "A P-450 Enzyme From Fetal Pig Testis Converts Progesterone to Androstenedione Via Dual Activity at its Active Site." The research was carried out jointly with Peter Hall, senior scientist at the Worcester Foundation for Experimental Biology in Shrewsbury, Mass., and with John E. Shively, director of Immunochimistry, division of immunology, City of Hope Research Institute, Duarte, Calif.

J. Regan Thomas, assistant professor of otolaryngology at the School of Medicine, has been elected to posts with two national medical associations. Thomas has been named a member of the board of directors and education chairman of the American Academy of Facial Plastic and Reconstructive Surgery Inc. He also has been appointed to the American Medical Association's Committee of the Young Physician — a new seven-member committee that will answer the needs of physicians under age 40.

some pretty good leads in the case," said Major Stanley Topper of the University City police force. "Unfortunately, none of them panned out. At this point, we have nothing to go on.

"In a case like this, if there was more than one person in the car (that hit Ezra), you have to hope that someone's conscience will take over and they'll confess."

Topper attributes the lack of witnesses to the accident's occurring during bad weather conditions and late at night. He urges anyone having any information to call University City Police at 725-2211.

"No matter how unimportant they think their information is, even a rumor, they should call. If they thought they saw something, but really aren't sure, they should report it. Anything. Anything at all."

Alumnus James Deakin examines government and media in the 1980s

James Deakin, former White House correspondent for the St. Louis Post-Dispatch, will talk on "The Truth Twisters: Government & Media in the 1980s" at 4 p.m. Sunday, Nov. 4, in Graham Chapel. Deakin is a native St. Louisan and WU alumnus (1951, B.A. in English).

The program is presented by the Bookmark Society, a new literary organization at the WU Libraries.

From 1955 to 1980, Deakin covered six presidents as White House correspondent with the St. Louis Post-Dispatch. He has chronicled his experience in *Straight Stuff: The Reporters, the White House and the Truth*, published by William Morrow and Co. in 1984.

Deakin also has written *Lyndon Johnson's Credibility Gap* (1968) and *The Lobbyists* (1966).

Currently, he divides his time between writing and teaching journalism at George Washington University in Washington, D.C.

In 1973, WU honored Deakin with a Distinguished Alumnus Award. While attending the Univer-

sity, he served as editor of Student Life.

Admission to the program is free for Bookmark Society members. Admission for non-members is \$3. For more information, call 889-5400 or 889-4670.



James Deakin

Cosmic Rays—continued from p. 1

WU's McDonnell Center for the Space Sciences. "That lets us see how the energy is deposited when the particle slows down and stops. We've never had such a specific measure in an electronic detector before. If you put that together with other data, you can determine the velocity, the charge, even the isotope of the cosmic ray."

Aboard SOFIE, several detectors work in unison. But the featured attraction is a block of scintillating optical fibers. Optical fibers are hair-thin conduits, usually glass, which transmit light. John Epstein, project manager in the Department of Physics, together with a California fiber optics firm, created optical fibers made of scintillating plastic — the material that flashes when excited by cosmic energy.

The WU team fused about 100,000 of these special optical fibers into a block and attached a television camera to one end. When a cosmic ray enters the bundle, it deposits energy which excites the scintillating plastic. That produces a burst of light which is piped down the block to a television camera, where it is recorded as a video image. The image is then telemetered back to earth for immediate analysis, along with the corresponding data from other detectors aboard SOFIE.

"For the first time, we have a clear picture of a particle coming in and stopping," says Martin Israel, professor of physics at the McDonnell Center. "It provides an image, just like the old emulsion detector, but it's recorded electronically and immediately on magnetic tape. It gives you more than a single pulse and a single number; it gives you an actual picture. This is the first time we've had that in an electronic detector."

The key to SOFIE is the marriage of fiber optics and scintillating plastic. The light bursts emitted by a simple block of scintillating plastic would be too faint for a television camera to record, but when fiber op-

tics pipe the flashes down to one tiny "screen," the light can be trapped, amplified and preserved on video. "So instead of trying to devise a camera that focuses on everything at once," says Israel, "you can train the focus right smack up against the end of the bundle and see it all."

A SOFIE prototype has already been tested at the nuclear accelerator at the Lawrence Berkeley Laboratories in California, and the WU team reports encouraging results. The next step is a high altitude balloon flight, tentatively scheduled for 1986. Barring any major problems, NASA could launch SOFIE into earth orbit before the end of the decade.

Paul Dusseault

Symphonic Winds present concert in Edison Theatre

The WU Symphonic Winds (formerly the WU Wind Ensemble) will present its first concert of the season at 4 p.m. Sunday, Nov. 4, in Edison Theatre.

The ensemble performs under the baton of Dan Presgrave, WU director of bands. The concert is free and open to the public.

The program features soloist Bill Archer, professor of music at Fontbonne College and a doctoral candidate at the University. Archer will perform "Concerto for Alto Saxophone" by Paul Creston.

Other selections include: "Canzona," by Peter Mennin; "Elegy," by John Barnes Chance; and "Suite of Old American Dances," by Robert Russell Bennett.

For more information, call the University's music department at 889-5581.

CALENDAR

Nov. 1-10

Friday, Nov. 2

Noon-1 p.m. Student Educational Service Workshop, "The Position Paper: Supporting Your Stand." 312 Women's Bldg.

7:30 p.m. Inter-Varsity Christian Fellowship Meeting, "Testimony and Song." Green Stuffs Line, Wohl Center.

Saturday, Nov. 3

9 a.m.-3 p.m. University College Workshop, "Meeting the Challenge of Change." William North, executive director, Care and Counseling Inc. 30 January Hall. Cost is \$25, including lunch. For more info., call 889-6731.

Monday, Nov. 5

11 a.m. Personal Computing Education Center Short Course, "001 Introduction to Computing Facilities." Karen Sanders, WU computer specialist. For more info., call 889-5813. Free to WU community.

Noon. Personal Computing Education Center Short Course, "130 Using Microcomputers." Pat Taylor, associate at the Center for the Study of Data Processing. (Also Nov. 6-9, same time.) For more info., call 889-5813. Free to WU community.

7:30-11 p.m. WU Go Club Meeting. Third fl. lounge, Women's Bldg.

Wednesday, Nov. 7

7:30-9 p.m. Student Educational Service Workshop, "Memory Strategies." 312 Women's Bldg.

Friday, Nov. 9

Noon-1 p.m. Student Educational Service Workshop, "The Research Paper." 312 Women's Bldg.

7:30 p.m. Inter-Varsity Christian Fellowship meeting. The second sequel of the film "Out of the Saltshaker" will be shown. Green Stuffs Line, Wohl Center.

Saturday, Nov. 10

9 a.m.-5 p.m. Intramural College Bowl and Tournament. Co-sponsored by the Office of Student Affairs and Student Union. Mallinckrodt Center. (Also Sun., Nov. 11, same time, and Mon., Nov. 12, 7:30 p.m.)

LECTURES

Thursday, Nov. 1

1:10 p.m. George Warren Brown School of Social Work Colloquium, "Social Work in the Political Arena." Thomas Magogna, St. Louis director of operations. Brown Hall Lounge.

3:30 p.m. Dept. of History Lecture, "The Decisive Years, 1840-1847: A New Look at 19th Century French History." David H. Pinkney, prof. of history, U. of Wash. Cohen Lounge, 113 Busch.

4 p.m. Undergraduate History Association Lecture Series, "The Archaeology of Legal History." David T. Konig, WU assoc. prof. of history. Also sponsored by Student Union. Gerhard Reading Room, Busch Hall.

4 p.m. Dept. of Earth and Planetary Sciences Seminar, "Application of Strontium Isotopes to Smackover Brines and Their Diagenetic Effects." Alan M. Stueber, SIU-Edwardsville. 102 Wilson Hall.

4 p.m. Chemistry and Physics Departments Seminar, "Atomic Clocks for Nuclear Times." Walter E. Meyerhof, prof. of physics, Stanford U. 311 McMillen.

Friday, Nov. 2

2:30 p.m. Dept. of Engineering and Policy Seminar, "University/Industry Research Relations." Edward L. MacCordy, WU associate vice chancellor for research. 104 Lopata.

2:30 p.m. McDonnell Lab. for Psychical Research Seminar, "Semantics and the Psi Controversy." John Palmer, Institute for Parapsychology, Durham, N.C. 117 Eads.

4 p.m. Division of Hematology-Oncology Seminar, "Function of the Transferrin Receptor in Cellular Proliferation." Paul Seligman, assoc. prof. of medicine, U. of Colo. 7th fl. conference room, McDonnell Medical Sciences Bldg., 4565 McKinley.

6 and 8:30 p.m. WU Association Travel Lecture Series, "Hotel Barges in Europe." Kenard Lawrence, filmmaker. Graham Chapel. For more info., call 889-5122.

8 p.m. Hillel Graduate Program and Discussion, "Jewish Humor: What Makes It Jewish?" Sy Pollack, asst. chairman of the WU Dept. of Computer Science. Hillel House, 6300 Forsyth.

Sunday, Nov. 4

2 p.m. Dept. of Art and Archaeology Slide Lecture, "Excavations at Ithaka, 1984." Sarantis Symeonoglou, WU assoc. prof. of art and archaeology. Steinberg Aud.

4 p.m. The Bookmark Society Lecture, "The Truth Twisters: Government and the Media in the 1980s." James Deakin, former White House correspondent of the St. Louis Post-Dispatch. Admission is \$3; Bookmark members free. Graham Chapel.

Monday, Nov. 5

2 p.m. Dept. of Chemical Engineering Seminar, "Chemical Engineering Aspect of the Light Guide Manufacture." P.L. Narasimham, of Western Electric, Norcross, Ga. 101 Lopata.

4:15 p.m. The Viktor Hamburger Lecture, "Recognition and Competition in the Nervous System." Dale Purves, WU prof. of physiology and biophysics. Sponsored by Dept. of Biology. 215 Rebstock.

8 p.m. School of Architecture Lecture, "Post Modern Architecture: The Absence of Meaning?" Mary McLeod, prof. of architecture, Columbia U. Steinberg Aud.

Wednesday, Nov. 7

Noon. The Left Forum, "Liberation Theology: Dialogue or Confrontation?" Pedro Cavalcanti and Steve Gelinas, both of WU Dept. of Sociology. Lambert Lounge, Mallinckrodt Center.

3 p.m. Women's Studies Program Panel Presentation and Informal Discussion, "Preview of Women's Studies Courses for Spring Semester." Women's Studies faculty. Brown Lounge.

4 p.m. Dept. of Physics Colloquium, "Radiative Collisions of Rydberg Atoms." Jacob Leventhal, dept. of physics, UMSL, 204 Crow.

4 p.m. Dept. of Chemistry Seminar, "Organometallic Compounds as Models for Carbon Monoxide Reduction Chemistry." G.L. Geoffroy, prof. of chemistry, Pennsylvania State U. 311 McMillen.

8 p.m. The Writers' Colloquium with John Lahr, visiting Hurst professor. Hurst Lounge.

Thursday, Nov. 8

2:30 p.m. Assembly Series Lecture, "The Challenges of Teaching as a Career." Cynthia Parsons, former education editor, The Christian Science Monitor. 217 McMillan. Also sponsored by Career Planning and Placement and the Dept. of Education.

4 p.m. Benjamin E. Youngdahl Lecture, "America: The Next Four Years." Michael Harrington, prof. of political science, Queens College, City University of New York. Graham Chapel. Sponsored by the Assembly Series and the School of Social Work.

4 p.m. Public Affairs Thursday Lecture Series, "Hispanics, Housing, and Jobs: The Dilemmas of a Minority Group." Gary Orfield, prof. of political science, U. of Chicago. C & D 200 Eliot.

4 p.m. Fourth Annual Herbert Spiegelberg Lecture in Phenomenology, "Reason and Nuclear Deterrence." Alan Gewirth, prof. of philosophy at U. of Chicago. Hurst Lounge.

7:30 p.m. Phi Delta Kappa Lecture, "School Reform." Cynthia Parsons, former education editor, The Christian Science Monitor. Women's Bldg. Lounge.

8 p.m. Dept. of Germanic Languages and Literatures Lecture, "Germans, Blacks, and Jews: Or, Is There a German Blackness of Its Own?" Reinhold Grimm, Distinguished Professor of German, U. of Wisc.-Madison. Hurst Lounge, Duncker Hall.

Friday, Nov. 9

8:30 p.m. Hillel Program and Discussion, "Untold Story of the Secret Pact Between the Third Reich and Jewish Palestine." Ed Black, author of *The Transfer Agreement*. Hillel House, 6300 Forsyth.

PERFORMANCES

Friday, Nov. 2

8 p.m. Holy Roman Repertory Company Presents "Life and Opinions of Giacomo Casanova" at the Drama Studio, 208 Mallinckrodt. These productions, presented as ancient broadcasts, are performed in the Drama Studio and aired on KWMU-FM. (Also Sat., Nov. 3, 2 and 8 p.m., Drama Studio.) Admission is \$5. Two-for-one discounts are available to KWMU Studio Set members and all students. For more info., call the Edison Theatre box office at 889-6543.

8 p.m. Edison Theatre Presents "Music from Paradise: The Balinese Gamelan." The production features the University of Northern Illinois Gamelan. General admission is \$5; WU faculty, staff and other students, \$4; WU students, \$3. For more info., call the Edison Theatre box office at 889-6543.

Saturday, Nov. 3

8 p.m. Edison Theatre Presents "The Oskar Schlemmer Bauhaus Dances." General admission is \$8; WU faculty, staff and other students, \$5; WU students, \$4. For more info., call the Edison box office at 889-6543.

Friday, Nov. 9

8 p.m. Edison Theatre Presents "Dimitri the Clown." General admission is \$8; WU faculty, staff and other students, \$5; and WU students, \$4. For more info., call the Edison Theatre box office at 889-6543.

MUSIC

Sunday, Nov. 4

4 p.m. Dept. of Music Symphonic Winds Concert. Soloist Bill Archer performing concerto for saxophone by Paul Creston. Edison Theatre. Free.

Friday, Nov. 9

8 p.m. Dept. of Music Faculty Lute Recital with Kevin Mason, instructor in music. Graham Chapel. Free.

EXHIBITIONS

"Master Prints." Through Dec. 30. Gallery of Art, print gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For evening hours, call 889-5490.

"From Aiken to Zukofsky: An Exhibit in Celebration of 20 Years of Collecting." Through Nov. 1. Olin Library, 5th level, Special Collections, 8:30 a.m.-5 p.m. weekdays.

"Modern Art from the Permanent Collection." Through Nov. 4. Gallery of Art, upper gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For evening hours, call 889-5490.

"U.S. Presidents and Politics." Through Nov. 30. Olin Lib., level 3. Regular library hours.

"Classics in the Neurosciences." WU School of Medicine, Medical Library Annex, 615 S. Taylor. Through Dec. 31. Open weekdays, 8:30 a.m.-5 p.m.

"The Spirit of Antiquity: Giovanni Battista Piranesi, Robert Adam, and Charles-Louis Clerisseau." Through Nov. 25. Gallery of art, lower gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For evening hours, call 889-5490.

"Cynthia Rogers Weese: Recent Architectural Projects." Through Nov. 5. Givens Hall, first floor corridor. 9 a.m. to 6 p.m. weekdays.

"Prints of Gail Singer." Nov. 4 through Nov. 25. Bixby Gallery. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends.

FILMS

Thursday, Nov. 1

7 and 9 p.m. WU Filmboard Series, "Diabolique." \$2. Brown Hall.

7 p.m. Women's Film Series, "The Lion in Winter." Free. Lambert Lounge, Mallinckrodt Center. (Also Fri., Nov. 2, same time, Lee Dormitory Basement.)

Friday, Nov. 2

7 and 9:30 p.m. WU Filmboard Series, "Terms of Endearment." \$2. Brown Hall. (Also Sat., Nov. 3, same times, and Sun., Nov. 4, 7 p.m., Brown.)

Midnight. WU Filmboard Series, "Return of the Pink Panther." \$1.50. Brown Hall. (Also Sat., Nov. 3, at midnight, and Sun., Nov. 4, at 9:30 p.m., Brown.)

Monday, Nov. 5

7 and 9 p.m. WU Filmboard Series, "Mr. Smith Goes to Washington." \$2. Brown Hall. (Also Tues., Nov. 6, same time, Brown.)

Wednesday, Nov. 7

7 and 9:30 p.m. WU Filmboard Series, "Z." \$2. Brown Hall. (Also Thurs., Nov. 8, same time, Brown.)

Thursday, Nov. 8

7 p.m. Women's Film Series, "Antonia: A Portrait of a Woman." Free. Lambert Lounge, Mallinckrodt Center. (Also Fri., Nov. 9, same time, Lee Dormitory Basement.)

Friday, Nov. 9

8 p.m. WU Filmboard Series, "Fanny and Alexander." \$2. Brown Hall. (Also Sat., Nov. 10, and Sun., Nov. 11, same time, Brown.)

11:30 p.m. WU Filmboard Series, "Willy Wonka & the Chocolate Factory." \$1.50. Brown Hall. (Also Sat., Nov. 10, at midnight, and Sun., Nov. 11, at 2 p.m., Brown.)

SPORTS

Thursday, Nov. 1

10:30 p.m. Hockey, WU vs. St. Louis U. Affton Rink.

Saturday, Nov. 3

7 p.m. Football, WU vs. Principia College. Francis Field.

Monday, Nov. 5

8:15 p.m. Hockey, WU vs. Parks College. North County Rink.

Tuesday, Nov. 6

11:15 p.m. Hockey, WU vs. UMSL. Creve Coeur Rink.

Friday, Nov. 9

7 p.m. Men and Women's Swimming, WU vs. Millikin U. St. Louis Community College at Forest Park.

Saturday, Nov. 10

1 p.m. Men and Women's Swimming, WU Relays. St. Louis Community College at Forest Park.

Calendar Deadline

The deadline to submit items for the Nov. 29-Dec. 8 calendar of the *Washington University Record* is Nov. 8. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event; also include your name and telephone number. Address items to King McElroy, calendar editor, Box 1142.

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